

Envirofacts

FRS Facility Detail Report



PHILIP MORRIS USA COMMERCE ROAD SITE

3601 COMMERCE RD
RICHMOND, VA 23234
EPA Registry Id: 110000869793

Facility Registry Service Links

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Legend

- ★ **Selected Facility**
- **EPA Facility of Interest**
- **State/Tribe Facility of Interest**

The facility locations displayed come from the FRS Spatial Coordinates tables. They are the best representative locations for the displayed facilities based on the accuracy of the collection method and quality assurance checks performed against each location. The North American Datum of 1983 is used to display all coordinates.

Environmental Interests

Information System	System Facility Name	Information System Id/Report Link	Environmental Interest Type	Data Source	Last Updated Date	Supplemental Environmental Interest
BOILER	PHILIP MORRIS MANUFACTURING CENTER	914884	BOILER	BOILER		
OIL DATABASE	PHILIP MORRIS - USA	R3-VA-00109	SPCC	OIL		
VIRGINIA - COMPREHENSIVE ENVIRONMENTAL DATA SYSTEM	PHILIP MORRIS USA INCORPORATED - MANUFACTURING CTR	200000097682	STATE MASTER	CEDS		CEDS-50076 AIR PROGRAM
BIENNIAL REPORTERS	PHILIP MORRIS USA INC - MANUFACTURING CENTER COMPLEX	VAD000819466	HAZARDOUS WASTE BIENNIAL REPORTER	RCRAINFO	12/31/2013	
RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM	PHILIP MORRIS USA MANUFACTURING CENTER	VAD003112042	UNSPECIFIED UNIVERSE (N)	RCRAINFO	04/14/2015	
ELECTRONIC GREENHOUSE GAS REPORTING TOOL (E-GGRT)	PHILIP MORRIS USA	1003707	GREENHOUSE GAS REPORTER	E-GGRT		
NATIONAL EMISSIONS INVENTORY	PHILIP MORRIS USA MANUFACTURING CENTER	NEI332	CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY	NEI		
E-PLAN EMERGENCY RESPONSE INFORMATION SYSTEM	PHILIP MORRIS USA, INC. - BELLS ROAD SITE	FATR2012LDSTFB92160M	TIER 2 REPORTER	E-PLAN	07/08/2013	
ICIS-AIR (AIR)	PHILIP MORRIS USA MANUFACTURING CENTER	VA0000005176000308	AIR MAJOR	ICIS	03/31/2015	
RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM EMISSION INVENTORY SYSTEM (EIS)	PHILIP MORRIS USA INC - MANUFACTURING CENTER COMPLEX	VAD000819466	LQG (Y)	RCRAINFO	10/05/2016	
	PHILIP MORRIS USA INC. - MANUFACTURING CENTER	5083111	HAZARDOUS AIR POLLUTANT MAJOR	EIS	01/14/0017	
TOXIC RELEASE INVENTORY SYSTEM	PHILIP MORRIS USA COMMERCE ROAD SITE	23234PHLLP3601C	TRI REPORTER	TRIS	06/21/2017	
AIR FACILITY SYSTEM	PHILIP MORRIS USA MANUFACTURING CENTER	5176000308	AIR MAJOR (OPERATING)	AIRS/AFS	06/20/2014	

Additional EPA Reports: [MyEnvironment](#) [Enforcement and Compliance](#) [Site Demographics](#) [Facility Coordinates Viewer](#) [Environmental Justice Map](#) [Viewer](#) [Watershed Report](#)

Standard Industrial Classification Codes (SIC)

National Industry Classification System Codes (NAICS)

Data Source	SIC Code	Description	Primary	Data Source	NAICS Code	Description	Primary
AIR	2111	CIGARETTES		TRIS	339999	ALL OTHER MISCELLANEOUS MANUFACTURING.	
AIRS/AFS	2111	CIGARETTES		NEI	312221	CIGARETTE MANUFACTURING.	

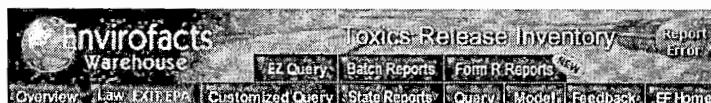
NEI	2111	CIGARETTES	AIR	312230	
CEDS	2111	CIGARETTES	E-GGRT	312221	CIGARETTE MANUFACTURING.
E-PLAN	2111	CIGARETTES	AIRS/AFS	312221	CIGARETTE MANUFACTURING.
Facility Codes and Flags			CEDS	312221	CIGARETTE MANUFACTURING.
			EIS	312230	
EPA Region: 03			E-PLAN	312221	CIGARETTE MANUFACTURING.
Duns Number:			RCRAINFO	31223	
Congressional District Number: 03			AIR	312221	CIGARETTE MANUFACTURING.
Legislative District Number:			RCRAINFO	31223	
HUC Code/Watershed: 02080206 / LOWER JAMES			TRIS	312230	
US Mexico Border Indicator:			Facility Mailing Addresses		
Federal Facility: NO					
Tribal Land:					
Alternative Names			Affiliation Type	Delivery Point	City Name
					State
					Postal Code
					Information System
Alternative Name			FACILITY MAILING ADDRESS	P.O. BOX 26603	RICHMOND VA 23232 RCRAINFO
Source of Data			MAILING ADDRESS	PO BOX 26603	RICHMOND VA 232616603 TRIS
PHILIP MORRIS USA, INC. - BELLS ROAD SITE			FACILITY MAILING ADDRESS	PO BOX 26603	RICHMOND VA 232616603 AIR
PHILIP MORRIS MANUFACTURING CENTER			FACILITY MAILING ADDRESS	PO BOX 26603	RICHMOND VA 232616603 AIRS/AFS
PHILIP MORRIS R & D			MAILING ADDRESS	PO BOX 26603	RICHMOND VA 232616603 CEDS
PHILIP MORRIS INCORPORATED			PARENT COMPANY	6601 WEST BROAD STREET	RICHMOND VA 23230 E-GGRT
PHILIP MORRIS USA INC - MANUFACTURING CENTER COMPLEX			MAILING ADDRESS	P.O. BOX 26603	RICHMOND VA 23261-6603 E-PLAN
PHILIP MORRIS USA MANUFACTURING CENTER			OTHER CONTACT	PO BOX 26603	RICHMOND VA 232616603 CEDS
PHILIP MORRIS - USA			REGULATORY CONTACT	601 EAST JACKSON STREET	RICHMOND VA 23219 RCRAINFO
PHILIP MORRIS RESEARCH & DEVEL			Contacts		
PHILIP MORRIS USA					
Organizations					
Affiliation Type	Name	DUNS Number	Information System	Mailing Address	
PARENT COMPANY	ALTRIA GROUP INC	144628310	TRIS		
OTHER CONTACT	PHILIP MORRIS USA INCORPORATED - MANUFACTURING CTR		CEDS	View	
PARENT COMPANY	ALTRIA GROUP INC		E-GGRT		
PARENT COMPANY	PHILIP MORRIS USA MANUFACTURING CENTER		EIS		
PARENT COMPANY	ALTRIA GROUP INC		E-GGRT	View	
Affiliation Type	Full Name	Office Phone	Information System	Mailing Address	
OTHER CONTACT	MR. JOHN C GOMES	8042742000	CEDS	View	
UNKNOWN CONTACT	PUGLISI, ANTHONY	8042743467	AIR		
PUBLIC CONTACT	CHARLES L. STIFF	8043352003	TRIS		
OTHER CONTACT	ANTHONY P PUGLISI	8042743467	CEDS	View	
COMPLIANCE CONTACT	PUGLISI, ANTHONY	8042743467	AIRS/AFS		
REGULATORY CONTACT	LAWRENCE E HEYD	8043352658	RCRAINFO	View	
REGULATORY CONTACT	LAWRENCE E HEYD	8043352658	RCRAINFO		
REGULATORY CONTACT	LAWRENCE E HEYD	8043352658	RCRAINFO	View	
UNKNOWN CONTACT	PUGLISI, ANTHONY	8042743467	AIRS/AFS		
COMPLIANCE CONTACT	PUGLISI, ANTHONY	8042743467	AIR		
TECHNICAL CONTACT	RANDY N. MONTAPERTO	8043352820	TRIS		
PUBLIC CONTACT	CHARLES L. STIFF	8043352003	TRIS		
TECHNICAL CONTACT	LEE ANNE MARECK	8043352820	TRIS		
TECHNICAL CONTACT	LAWRENCE E. HEYD	8043352658	TRIS		

Query executed on: JUL-27-2017

Additional information for CERCLIS or TRI sites:

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- National Library of Medicine (NLM) [EXTRA](#) [TOXMAP](#)



TRI Envirofacts Report

Query executed on JUL-27-2017
Results are based on data extracted on JUL-12-2017

Click on "View Facility Information" to view EPA Facility information for the facility.

Facility Name:	PHILIP MORRIS USA COMMERCE ROAD SITE	Mailing Name:	PHILIP MORRIS USA COMMERCE ROAD SITE
Address:	3601 COMMERCE RD RICHMOND VA 23234	Mailing Address:	2325 BELLS ROAD RICHMOND VA 23234
County:	RICHMOND (CITY)	Region:	3
Facility Information:	View Facility Information	TRI ID:	23234PHLLP3601C
DUNS Number:	040376240	FRS ID:	110000869793
TRI Preferred Latitude:	37.469167	TRI Preferred Longitude:	77.432222
Public Contact:	CHARLES L. STIFF	Phone:	8043352003
Assigned Public Contact:	CHARLES L. STIFF		
Parent Company:	ALTRIA GROUP INC	Standardized Parent Company:	ALTRIA GROUP INC
BIA Tribal Code:		Tribe:	
		Parent DUNS:	144628310

Starting with Reporting Year 2006, TRI Facilities began reporting NAICS codes, instead of SIC codes, to identify their Primary Business Activities.

NAICS Codes for 2016

NAICS CODE	PRIMARY	NAICS DESCRIPTION
312230	YES	Tobacco Manufacturing
339999	NO	All Other Miscellaneous Manufacturing

The above information comes from 2016, which was the last year NAICS code data was reported for this facility. The earliest NAICS code data on file for this facility was reported in 1987.

Industry Code for 2016

INDUSTRY CODE	INDUSTRY DESCRIPTION
3122	Tobacco
339	Miscellaneous Manufacturing

[Map this facility](#)

Map this facility using one of Envirofact's mapping utilities.

Besides TRI, this facility also does the following:

- has reported air releases under the Clean Air Act
- handles hazardous waste
- has reported greenhouse gas (GHG) data

More information about these additional regulatory aspects of this facility can be found by pressing the other regulatory data button below.

[Other Regulatory Data](#)

Total Aggregate Releases of TRI Chemicals to the Environment:

For all releases estimated as a range, the mid-point of the range was used in these calculations. This table summarizes the releases reported by the facility. NR - signifies nothing reported by this facility for the corresponding medium.

Total Aggregate Releases of TRI Chemicals excluding Dioxin and Dioxin-like Compounds (Measured in Pounds)

Media	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000
Air Emissions	32018	32878	79774.2	142510.94	533889.39	477389.96	478618.56	431281.91	451125.53	77918.3	83808.2	90916.2	101403.8	107444.4	101015	85015	920
Surface Water	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

LEAD COMPOUNDS (TRI Chemical ID: N420)	DISP NON METALS	Pounds	NR	NR	NR	NR	NR	NR	345	346	0	0	142	351	381	570.1	437.1	NR
LEAD COMPOUNDS (TRI Chemical ID: N420)	POTW METALS	Pounds	NR	NR	0	0	0	NR	NR	NR	NR	NR	NR	NR	NR	0	14.2	NR
MERCURY COMPOUNDS (TRI Chemical ID: N458)	AIR FUG	Pounds	NR	NR	NR	NR	.05	.06	.06	.06	.05	NR	NR	NR	NR	NR	NR	NR
MERCURY COMPOUNDS (TRI Chemical ID: N458)	AIR STACK	Pounds	NR	NR	NR	NR	8.79	9.4	9.4	8.55	9.08	NR	NR	NR	NR	NR	NR	NR
NICOTINE AND SALTS (TRI Chemical ID: N503)	AIR FUG	Pounds	116	120	119	125	127	123	127	102	80	83	106	111	140	150	5	
NICOTINE AND SALTS (TRI Chemical ID: N503)	AIR STACK	Pounds	11555	12017	11945	12480	12694	12348	12731	10171	8022	8282	10647	11148	14000	15000	15000	
SULFURIC ACID (1994 AND AFTER "ACID AEROSOLS" ONLY) (TRI Chemical ID: 007664939)	AIR STACK	Pounds	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
ZINC COMPOUNDS (TRI Chemical ID: N982)	AIR FUG	Pounds	NR	NR	NR	NR	15	17.6	16.1	16.5	14.9	NR	NR	NR	NR	NR	NR	NR
ZINC COMPOUNDS (TRI Chemical ID: N982)	AIR STACK	Pounds	NR	NR	NR	NR	390706	391737	391901	356345	378516	NR	NR	NR	NR	NR	NR	NR

Discharge of Chemicals into Streams or Bodies of Water:

Please note that either there were no releases of chemicals into streams or bodies of water reported by this facility or the facility did not file a TRI form R for the years 1987 to 2016. Rows with Release Amount equal to "0" were not listed.

Transfer of Chemicals to Off-Site Locations other than POTWs:

For all releases estimated as a range, the mid-point of the range was used in these calculations. Rows with Total Transfer Amount equal to "0" were not listed.

Chemical Name	Year	Unit Of Measure	Total Transfer Amount	Transfer Site Name and Address	Type Of Waste Management
AMMONIA (TRI Chemical ID: 007664417)	2016	Pounds	5	MCGILL ENVIRONMENTAL SYSTEMS 5056 BEEFSTEAK ROAD WAVERLY, VA 23890	Other Reuse or Recovery
AMMONIA (TRI Chemical ID: 007664417)	2015	Pounds	5	MCGILL ENVIRONMENTAL SYSTEMS 5056 BEEFSTEAK ROAD WAVERLY, VA 23890	Other Reuse or Recovery
AMMONIA (TRI Chemical ID: 007664417)	2014	Pounds	5	MCGILL ENVIRONMENTAL SYSTEMS 5056 BEEFSTEAK ROAD WAVERLY, VA 23890	Other Reuse or Recovery
AMMONIA (TRI Chemical ID: 007664417)	2013	Pounds	5	MCGILL ENVIRONMENTAL SYSTEMS 5056 BEEFSTEAK ROAD WAVERLY, VA 23890	Other Reuse or Recovery
AMMONIA (TRI Chemical ID: 007664417)	2012	Pounds	5	MCGILL ENVIRONMENTAL SYSTEMS 5056 BEEFSTEAK ROAD WAVERLY, VA 23890	Other Reuse or Recovery
AMMONIA (TRI Chemical ID: 007664417)	2011	Pounds	5	MCGILL ENVIRONMENTAL SYSTEMS 5056 BEEFSTEAK ROAD WAVERLY, VA 23890	Other Reuse or Recovery
AMMONIA (TRI Chemical ID: 007664417)	2010	Pounds	5	MCGILL ENVIRONMENTAL SYSTEMS 5056 BEEFSTEAK ROAD WAVERLY, VA 23890	Other Reuse or Recovery
AMMONIA (TRI Chemical ID: 007664417)	2002	Pounds	140	ONYX ENV. SVS. L.L.C. 2176 WILL SUIT RD. CREEDMOOR, NC 27522	Transfer to Waste Broker-Waste Treatment
AMMONIA (TRI Chemical ID: 007664417)	1999	Pounds	16	ONYX ENVIRONMENTAL SERVICES 2176 WILL SUIT RD. CREEDMOOR, NC 27522	Transfer to Waste Broker-Disposal
AMMONIA (TRI Chemical ID: 007664417)	1998	Pounds	26	ADVANCED ENV. TECH. . SERVICES 2176 WILL SUIT RD. CREEDMOOR, NC 27522	Transfer to Waste Broker-Disposal
AMMONIA (TRI Chemical ID: 007664417)	1997	Pounds	30	LAILAW ENVIRONMENTAL SERVICES, BDT 4255 RESEARCH PKY. CLARENCE, NY 14031	Incineration/Thermal Treatment
AMMONIA (TRI Chemical ID: 007664417)	1997	Pounds	160	TRADE WASTE INCINERATION #7 MOBILE AVE. SAUGET, IL 622011069	Incineration/Thermal Treatment
DIMETHYL PHTHALATE (TRI Chemical ID: 000131113)	1987	Pounds	1100	NA	Landfill/Disposal Surface Impoundment

LEAD COMPOUNDS (TRI Chemical ID: N420)	2014	Pounds	312	SHOOSMITH SANITARY LANDFILL 11800 LEWIS RD CHESTER, VA 23831	Other Reuse or Recovery
LEAD COMPOUNDS (TRI Chemical ID: N420)	2013	Pounds	715	SHOOSMITH SANITARY LANDFILL 11800 LEWIS RD CHESTER, VA 23831	Other Reuse or Recovery
LEAD COMPOUNDS (TRI Chemical ID: N420)	2012	Pounds	343	SHOOSMITH SANITARY LANDFILL 11800 LEWIS RD CHESTER, VA 238310000	Other Reuse or Recovery
LEAD COMPOUNDS (TRI Chemical ID: N420)	2011	Pounds	345	ENVIRONMENTAL SOLUTIONS INC. THE SUSTAINABILITY PARK, LLC 13101 NORTH ENON CHURCH ROAD CHESTER, VA 23836	RCRA Subtitle C Landfills
LEAD COMPOUNDS (TRI Chemical ID: N420)	2010	Pounds	346	ENVIRONMENTAL SOLUTIONS INC. THE SUSTAINABILITY PARK, LLC 13101 NORTH ENON CHURCH ROAD CHESTER, VA 23836	RCRA Subtitle C Landfills
LEAD COMPOUNDS (TRI Chemical ID: N420)	2009	Pounds	314	ENVIRONMENTAL SOLUTIONS INC. THE SUSTAINABILITY PARK, LLC 13101 NORTH ENON CHURCH ROAD CHESTER, VA 23836	Other Reuse or Recovery
LEAD COMPOUNDS (TRI Chemical ID: N420)	2008	Pounds	333	ENVIRONMENTAL SOLUTIONS INC. THE SUSTAINABILITY PARK, LLC 13101 NORTH ENON CHURCH ROAD CHESTER, VA 23836	Other Reuse or Recovery
LEAD COMPOUNDS (TRI Chemical ID: N420)	2007	Pounds	214	ENVIRONMENTAL SOLUTIONS INC. THE SUSTAINABILITY PARK, LLC 13101 NORTH ENON CHURCH ROAD CHESTER, VA 23836	Other Reuse or Recovery
LEAD COMPOUNDS (TRI Chemical ID: N420)	2007	Pounds	142	SHOOSMITH BROTHERS 11800 LEWIS ROAD CHESTER, VA 23831	RCRA Subtitle C Landfills
LEAD COMPOUNDS (TRI Chemical ID: N420)	2006	Pounds	351	SHOOSMITH BROTHERS 11800 LEWIS ROAD CHESTER, VA 23831	RCRA Subtitle C Landfills
LEAD COMPOUNDS (TRI Chemical ID: N420)	2005	Pounds	381	SHOOSMITH BROTHERS 11800 LEWIS ROAD CHESTER, VA 23831	RCRA Subtitle C Landfills
LEAD COMPOUNDS (TRI Chemical ID: N420)	2004	Pounds	570.1	SHOOSMITH BROTHERS INC. 11800 LEWIS RD CHESTER, VA 23831	RCRA Subtitle C Landfills
LEAD COMPOUNDS (TRI Chemical ID: N420)	2003	Pounds	437.1	SHOOSMITH BROTHERS INC. 11800 LEWIS RD CHESTER, VA 2331	RCRA Subtitle C Landfills
MERCURY COMPOUNDS (TRI Chemical ID: N458)	2012	Pounds	52.35	SHOOSMITH SANITARY LANDFILL 11800 LEWIS RD CHESTER, VA 238310000	Other Reuse or Recovery
MERCURY COMPOUNDS (TRI Chemical ID: N458)	2011	Pounds	60.47	SHOOSMITH BROTHERS 11800 LEWIS ROAD CHESTER, VA 23831	Other Reuse or Recovery
MERCURY COMPOUNDS (TRI Chemical ID: N458)	2010	Pounds	55.01	SHOOSMITH BROTHERS 11800 LEWIS ROAD CHESTER, VA 23831	Other Reuse or Recovery
MERCURY COMPOUNDS (TRI Chemical ID: N458)	2009	Pounds	56.72	ENVIRONMENTAL SOLUTIONS INC. THE SUSTAINABILITY PARK, LLC 13101 NORTH ENON CHURCH ROAD CHESTER, VA 23836	Other Reuse or Recovery
MERCURY COMPOUNDS (TRI Chemical ID: N458)	2008	Pounds	50.95	ENVIRONMENTAL SOLUTIONS INC. THE SUSTAINABILITY PARK, LLC 13101 NORTH ENON CHURCH ROAD CHESTER, VA 23836	Other Reuse or Recovery
NICOTINE AND SALTS (TRI Chemical ID: N503)	2016	Pounds	113472	MCGILL ENVIRONMENTAL SYSTEMS 5056 BEEFSTEAK ROAD WAVERLY, VA 23890	Other Reuse or Recovery
NICOTINE AND SALTS (TRI Chemical ID: N503)	2016	Pounds	1201	VEOLIA ES TECHNICAL SOLUTIONS LLC PORT ARTHUR FACILITY 7665 HIGHWAY 87 PORT ARTHUR, TX 77642	Incineration/Thermal Treatment
NICOTINE AND SALTS (TRI Chemical ID: N503)	2016	Pounds	797	VEOLIA TECHNICAL SOLUTIONS LLC 7 MOBILE AVE SAUGET, IL 62201	Incineration/Thermal Treatment
NICOTINE AND SALTS (TRI Chemical ID: N503)	2015	Pounds	110670	MCGILL ENVIRONMENTAL SYSTEMS 5056 BEEFSTEAK ROAD WAVERLY, VA 23890	Other Reuse or Recovery
NICOTINE AND SALTS (TRI Chemical ID: N503)	2015	Pounds	1176	VEOLIA ES TECHNICAL SOLUTIONS LLC PORT ARTHUR FACILITY	Incineration/Thermal Treatment

				7665 HIGHWAY 87 PORT ARTHUR, TX 77642	
NICOTINE AND SALTS (TRI Chemical ID: N503)	2014	Pounds	120740	MCGILL ENVIRONMENTAL SYSTEMS 5056 BEEFSTEAK ROAD WAVERLY, VA 23890	Other Reuse or Recovery
NICOTINE AND SALTS (TRI Chemical ID: N503)	2013	Pounds	126400	MCGILL ENVIRONMENTAL SYSTEMS 5056 BEEFSTEAK ROAD WAVERLY, VA 23890	Other Reuse or Recovery
NICOTINE AND SALTS (TRI Chemical ID: N503)	2012	Pounds	105113	MCGILL ENVIRONMENTAL SYSTEMS 5056 BEEFSTEAK ROAD WAVERLY, VA 23890	Other Reuse or Recovery
NICOTINE AND SALTS (TRI Chemical ID: N503)	2011	Pounds	121680	MCGILL ENVIRONMENTAL SYSTEMS 5056 BEEFSTEAK ROAD WAVERLY, VA 23890	Other Reuse or Recovery
NICOTINE AND SALTS (TRI Chemical ID: N503)	2010	Pounds	101100	MCGILL ENVIRONMENTAL SYSTEMS 5056 BEEFSTEAK ROAD WAVERLY, VA 23890	Other Reuse or Recovery
NICOTINE AND SALTS (TRI Chemical ID: N503)	2009	Pounds	77880	ENVIRONMENTAL SOLUTIONS INC. THE SUSTAINABILITY PARK, LLC 13101 NORTH ENON CHURCH ROAD CHESTER, VA 23836	Other Reuse or Recovery
NICOTINE AND SALTS (TRI Chemical ID: N503)	1997	Pounds	490	TRADE WASTE INCINERATION #7 MOBILE AVE. SAUGET, IL 622011069	Incineration/Thermal Treatment
NICOTINE AND SALTS (TRI Chemical ID: N503)	1996	Pounds	50	ADVANCED ENVIRONMENTAL TECH., CORP. 2176 SUITT RD. CREEDMOOR, NC 27522	Incineration/Thermal Treatment
NICOTINE AND SALTS (TRI Chemical ID: N503)	1995	Pounds	50	ADVANCED ENVIRONMENTAL, TECHNOLOGY CORP. 2176 SUITT RD. CREEDMOOR, NC 27522	Incineration/Thermal Treatment
ZINC COMPOUNDS (TRI Chemical ID: N982)	2012	Pounds	15272	SHOOSMITH SANITARY LANDFILL 11800 LEWIS RD CHESTER, VA 238310000	Other Reuse or Recovery
ZINC COMPOUNDS (TRI Chemical ID: N982)	2011	Pounds	17637	SHOOSMITH BROTHERS 11800 LEWIS ROAD CHESTER, VA 23831	Other Reuse or Recovery
ZINC COMPOUNDS (TRI Chemical ID: N982)	2010	Pounds	16046	SHOOSMITH BROTHERS 11800 LEWIS ROAD CHESTER, VA 23831	Other Reuse or Recovery
ZINC COMPOUNDS (TRI Chemical ID: N982)	2009	Pounds	16545	ENVIRONMENTAL SOLUTIONS INC. THE SUSTAINABILITY PARK, LLC 13101 NORTH ENON CHURCH ROAD CHESTER, VA 23836	Other Reuse or Recovery
ZINC COMPOUNDS (TRI Chemical ID: N982)	2008	Pounds	14860	ENVIRONMENTAL SOLUTIONS INC. THE SUSTAINABILITY PARK, LLC 13101 NORTH ENON CHURCH ROAD CHESTER, VA 23836	Other Reuse or Recovery

Summary of Waste Management Activities

Please note that chemical amounts shown here are not included in Total Aggregate Releases shown above.

Summary of Waste Management Activities excluding Dioxin and Dioxin-like Compounds (Measured in Pounds)

Year	On-Site Recycling	Off-Site Recycling	On-Site Energy Recovery	Off-Site Energy Recovery	On-Site Treatment	Off-Site Treatment	Total Amount
2015	0	110675	0	0	117669	2208.6	230552.6
2016	0	113477	0	0	110715	3488	227680
2017 (Projected)	0	115005	0	0	105000	2600	222605
2018 (Projected)	0	115005	0	0	105000	2500	222505

Summary of Waste Management Activities for Dioxin and Dioxin-like Compounds (Measured in Grams)

This facility did not report any waste management activities for Dioxin and Dioxin-like Compounds.

Chemicals Under Waste Management:

Please note that chemical amounts shown here are not included in the Total Aggregate Releases shown above. Transfers to Publicly Owned Treatment Works are listed on a separate table.

Chemical Name	Year	Unit Of Measure	On-Site Recycling	Off-Site Recycling	On-Site Energy Recovery	Off-Site Energy Recovery	On-Site Treated	Off-Site Treated	Total Amount

AMMONIA	2015	Pounds	0	5	0	0	5230	1032.6	6267.6
	2016	Pounds	0	5	0	0	5088	1490	6583
	2017 (Projected)	Pounds	0	5	0	0	5000	1500	6505
	2018 (Projected)	Pounds	0	5	0	0	5000	1500	6505
NICOTINE AND SALTS	2015	Pounds	0	110670	0	0	112439	1176	224285
	2016	Pounds	0	113472	0	0	105627	1998	221097
	2017 (Projected)	Pounds	0	115000	0	0	100000	1100	216100
	2018 (Projected)	Pounds	0	115000	0	0	100000	1000	216000

Publicly Owned Treatment Works (POTW) that Chemicals were Transferred to in 2011 and after:

In reporting year 2011, TRI changed its reporting requirements such that facilities were required to report the quantities transferred to individual POTWs. Prior to reporting year 2011, TRI only required facilities to report a total for all transfers of a chemical to one or more POTWs. Listed below are chemical, reporting year, unit of measure, total amount transferred and the name and address of the POTW. For all releases estimated as a range, the mid-point of the range was used in these calculations. Rows with Total Transfer Amount equal to "0" were not listed.

Chemical Name	Year	Unit Of Measure	Total Transfer Amount	POTW Name and Address
AMMONIA	2011	Pounds	1761	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES 1400 BRANDERS STREET RICHMOND, VA 23224
AMMONIA	2012	Pounds	1447	CITY OF RICHMOND WASTEWATER TREATMENT PLANT 1400 BRANDER STREET RICHMOND, VA 232242302
AMMONIA	2013	Pounds	1390	CITY OF RICHMOND WASTEWATER TREATMENT PLANT 1400 BRANDER STREET RICHMOND, VA 23224
AMMONIA	2014	Pounds	1496	CITY OF RICHMOND WASTEWATER TREATMENT PLANT 1400 BRANDER STREET RICHMOND, VA 23224
AMMONIA	2015	Pounds	1721	CITY OF RICHMOND WASTEWATER TREATMENT PLANT 1400 BRANDER STREET RICHMOND, VA 232242302
AMMONIA	2016	Pounds	2483	CITY OF RICHMOND WASTEWATER TREATMENT PLANT 1400 BRANDER STREET RICHMOND, VA 232242302
NICOTINE AND SALTS	2011	Pounds	59859	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES 1400 BRANDERS STREET RICHMOND, VA 23224
NICOTINE AND SALTS	2012	Pounds	49191	CITY OF RICHMOND WASTEWATER TREATMENT PLANT 1400 BRANDER STREET RICHMOND, VA 232242302
NICOTINE AND SALTS	2013	Pounds	47290	CITY OF RICHMOND WASTEWATER TREATMENT PLANT 1400 BRANDER STREET RICHMOND, VA 23224
NICOTINE AND SALTS	2014	Pounds	50850	CITY OF RICHMOND WASTEWATER TREATMENT PLANT 1400 BRANDER STREET RICHMOND, VA 23224
NICOTINE AND SALTS	2015	Pounds	58496	CITY OF RICHMOND WASTEWATER TREATMENT PLANT 1400 BRANDER STREET RICHMOND, VA 232242302
NICOTINE AND SALTS	2016	Pounds	84422	CITY OF RICHMOND WASTEWATER TREATMENT PLANT 1400 BRANDER STREET RICHMOND, VA 232242302

Publicly Owned Treatment Works (POTW) that Chemicals were Transferred to PRIOR to 2011:

Please note that transfer amounts are not included in the Total Aggregate Releases shown above. For all releases estimated as a range, the mid-point of the range was used in these calculations.

Chemical Name	Year	Unit Of Measure	Total Transfer Amount
AMMONIA	1998	Pounds	13
AMMONIA	1999	Pounds	2200
AMMONIA	2000	Pounds	1300
AMMONIA	2001	Pounds	1300
AMMONIA	2002	Pounds	1100
AMMONIA	2003	Pounds	1300
AMMONIA	2004	Pounds	20
AMMONIA	2005	Pounds	733
AMMONIA	2006	Pounds	672
AMMONIA	2007	Pounds	1040

AMMONIA	2008	Pounds	1186
AMMONIA	2009	Pounds	996
AMMONIA	2010	Pounds	1279
DIMETHYL PHTHALATE	1987	Pounds	1200
LEAD COMPOUNDS	2003	Pounds	14.2
NICOTINE AND SALTS	1995	Pounds	87900
NICOTINE AND SALTS	1996	Pounds	65700
NICOTINE AND SALTS	1997	Pounds	69000
NICOTINE AND SALTS	1998	Pounds	89000
NICOTINE AND SALTS	1999	Pounds	160000
NICOTINE AND SALTS	2000	Pounds	160000
NICOTINE AND SALTS	2001	Pounds	190000
NICOTINE AND SALTS	2002	Pounds	180000
NICOTINE AND SALTS	2003	Pounds	170000
NICOTINE AND SALTS	2004	Pounds	170000
NICOTINE AND SALTS	2005	Pounds	24932
NICOTINE AND SALTS	2006	Pounds	22828
NICOTINE AND SALTS	2007	Pounds	35346
NICOTINE AND SALTS	2008	Pounds	40316
NICOTINE AND SALTS	2009	Pounds	33857
NICOTINE AND SALTS	2010	Pounds	43477
SODIUM HYDROXIDE (SOLUTION)	1987	Pounds	250
SODIUM HYDROXIDE (SOLUTION)	1988	Pounds	250

Chemical Name	Year	POTW Name and Address
AMMONIA	1997	NA
AMMONIA	1998	CITY OF RICHMOND DEPT. OF PUBLIC UTILITIES 1400 BRANDERS ST. RICHMOND, VA 23224
AMMONIA	1999	CITY OF RICHMOND DEPT. OF PUBLIC UTILITIES 1400 BRANDERS ST. RICHMOND, VA 23224
AMMONIA	2000	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES 1400 BRANDERS ST. RICHMOND, VA 23224
AMMONIA	2001	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES 1400 BRANDERS ST. RICHMOND, VA 23224
AMMONIA	2002	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES 1400 BRANDERS ST. RICHMOND, VA 23224
AMMONIA	2003	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES 1400 BRANDERS ST RICHMOND, VA 23224
AMMONIA	2004	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES 1400 BRANDERS ST RICHMOND, VA 23224
AMMONIA	2005	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES 1400 BRANDERS STREET RICHMOND, VA 23224
AMMONIA	2006	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES 1400 BRANDERS STREET RICHMOND, VA 23224
AMMONIA	2007	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES 1400 BRANDERS STREET RICHMOND, VA 23224
AMMONIA	2008	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES 1400 BRANDERS STREET RICHMOND, VA 23224
AMMONIA	2009	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES 1400 BRANDERS STREET RICHMOND, VA 23224
AMMONIA	2010	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES 1400 BRANDERS STREET RICHMOND, VA 23224
DICHLORODIFLUOROMETHANE	1991	NA
DIMETHYL PHTHALATE	1987	CITY OF RICHMOND WASTEWATER, TREATMENT WORKS 1400 BRANDER STREET RICHMOND, VA 232242399

HYDROCHLORIC ACID (1995 AND AFTER "ACID AEROSOLS" ONLY)	1997	NA
HYDROCHLORIC ACID (1995 AND AFTER "ACID AEROSOLS" ONLY)	1999	NA
HYDROCHLORIC ACID (1995 AND AFTER "ACID AEROSOLS" ONLY)	2001	NA
HYDROCHLORIC ACID (1995 AND AFTER "ACID AEROSOLS" ONLY)	2002	NA
HYDROCHLORIC ACID (1995 AND AFTER "ACID AEROSOLS" ONLY)	2004	NA
HYDROCHLORIC ACID (1995 AND AFTER "ACID AEROSOLS" ONLY)	2005	NA
HYDROCHLORIC ACID (1995 AND AFTER "ACID AEROSOLS" ONLY)	2006	NA
HYDROCHLORIC ACID (1995 AND AFTER "ACID AEROSOLS" ONLY)	2007	NA
LEAD COMPOUNDS	2003	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES 1400 BRANDERS ST RICHMOND, VA 23224
LEAD COMPOUNDS	2004	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES 1400 BRANDERS ST RICHMOND, VA 23224
LEAD COMPOUNDS	2005	NA
LEAD COMPOUNDS	2006	NA
LEAD COMPOUNDS	2007	NA
MERCURY COMPOUNDS	2008	CITY OF RICHMOND WASTEWATER TREATMENT PLANT 1400 BRANDER STREET RICHMOND, VA 232242302
MERCURY COMPOUNDS	2009	CITY OF RICHMOND WASTEWATER TREATMENT PLANT 1400 BRANDER STREET RICHMOND, VA 232242302
MERCURY COMPOUNDS	2010	CITY OF RICHMOND WASTEWATER TREATMENT PLANT 1400 BRANDER STREET RICHMOND, VA 232242302
NICOTINE AND SALTS	1995	CITY OF RICHMOND DEPARTMENT OF, PUBLIC UTILITIES 1400 BRANDER ST. RICHMOND, VA 23224
NICOTINE AND SALTS	1995	NA
NICOTINE AND SALTS	1996	CITY OF RICHMOND DEPARTMENT, OF PUBLIC UTILITIES 1400 BRANDER ST. RICHMOND, VA 23224
NICOTINE AND SALTS	1996	NA
NICOTINE AND SALTS	1997	CITY OF RICHMOND DEPT. OF, PUBLIC UTILITIES 1400 BRANDER ST. RICHMOND, VA 23224
NICOTINE AND SALTS	1997	NA
NICOTINE AND SALTS	1998	CITY OF RICHMOND 1400 BRANDERS ST. RICHMOND, VA 23224
NICOTINE AND SALTS	1999	CITY OF RICHMOND DEPT. OF PUBLIC UTILITIES 1400 BRANDERS ST. RICHMOND, VA 23224
NICOTINE AND SALTS	2000	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES 1400 BRANDERS ST. RICHMOND, VA 23224
NICOTINE AND SALTS	2001	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES 1400 BRANDERS ST. RICHMOND, VA 23224
NICOTINE AND SALTS	2002	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES 1400 BRANDERS ST. RICHMOND, VA 23224
NICOTINE AND SALTS	2003	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES 1400 BRANDERS ST RICHMOND, VA 23224
NICOTINE AND SALTS	2004	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES 1400 BRANDERS ST RICHMOND, VA 23224
NICOTINE AND SALTS	2005	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES

		1400 BRANDERS STREET RICHMOND, VA 23224
NICOTINE AND SALTS	2006	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES 1400 BRANDERS STREET RICHMOND, VA 23224
NICOTINE AND SALTS	2007	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES 1400 BRANDERS STREET RICHMOND, VA 23224
NICOTINE AND SALTS	2008	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES 1400 BRANDERS STREET RICHMOND, VA 23224
NICOTINE AND SALTS	2009	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES 1400 BRANDERS STREET RICHMOND, VA 23224
NICOTINE AND SALTS	2010	CITY OF RICHMOND DEPARTMENT OF PUBLIC UTILITIES 1400 BRANDERS STREET RICHMOND, VA 23224
SODIUM HYDROXIDE (SOLUTION)	1987	CITY OF RICHMOND WASTEWATER, TREATMENT WORKS 1400 BRANDER STREET RICHMOND, VA 232242399
SODIUM HYDROXIDE (SOLUTION)	1988	CITY OF RICHMOND WASTEWATER, TREATMENT 1400 BRANDER ST. RICHMOND, VA 232242399
SULFURIC ACID (1994 AND AFTER "ACID AEROSOLS" ONLY)	1987	CITY OF RICHMOND WASTEWATER, TREATMENT WORKS 1400 BRANDER STREET RICHMOND, VA 232242399
SULFURIC ACID (1994 AND AFTER "ACID AEROSOLS" ONLY)	1991	NA
SULFURIC ACID (1994 AND AFTER "ACID AEROSOLS" ONLY)	1992	NA
ZINC COMPOUNDS	2008	CITY OF RICHMOND WASTEWATER TREATMENT PLANT 1400 BRANDER STREET RICHMOND, VA 232242302
ZINC COMPOUNDS	2009	CITY OF RICHMOND WASTEWATER TREATMENT PLANT 1400 BRANDER STREET RICHMOND, VA 232242302
ZINC COMPOUNDS	2010	CITY OF RICHMOND WASTEWATER TREATMENT PLANT 1400 BRANDER STREET RICHMOND, VA 232242302

Non Production Releases:

This report shows the quantities of the chemicals released to the environment by reporting year as a result of remedial actions, catastrophic events, or other one-time events not associated with production processes. Chemicals with zero release amounts are not shown.

Chemical Name	Reporting Year	Unit Of Measure	Release Quantity
DICHLORODIFLUOROMETHANE	1994	Pounds	12500
DICHLORODIFLUOROMETHANE	1991	Pounds	5500

The Environmental Defense Fund's (EDF) Chemical Scorecard has on-line environmental information regarding this

☒ facility's reported TRI releases. This information resource is not maintained, managed, or owned by the Environmental Protection Agency (EPA) or the Envirofacts Support Team. Neither the EPA nor the Envirofacts Support Team is responsible for their content or site operation. The Envirofacts Warehouse provides this reference only as a convenience to our Internet users.

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